FIG. 1

ATGCCCAAGCGCGCGCACTGGGGGGCCCTCTCCGTGGTGCTGATCCTGCTTTGGGGCCATCCGCGAGTGGCGTGCCCTGCCCGCATCCTTGTGCCT GCTACGTCCCCAGCGAGGTCCACTGCACGTTCCGATCCCTGGCTTCCGTGCCCGCTGGCATTGCTAGACACGTGGAAAGAATCAATTTGGGGTTTAA TAGCATACAGGCCCTGTCAGAAACCTCATTTGCAGGACTGACCAAGTTGGAGCTACTTATGATTCACGGCAATGAGATCCCCAAGCATCCCCGATGGA GCTTTAAGAGACCTCAGCTCTCTCAGGTTTTCAAGTTCAGCTACAACAAGCTGAGAGTGATCACAGGACAGACCCTCCAGGGTCTCTCTAACTTAA $\tt CCTCCACCAGCTGCACCCCAGCACCTTCTCCACGTTCACATTTTTGGATTATTTCAGACTCTCCACCATAAGGCACCTCTACTTAGCAGAGAACATG$ GTTAGAACTCTTCCTGCCAGCATGCTTCGGAACATGCCGCTTCTGGAGAATCTTTACTTGCAGGGAAATCCGTGGACCTGCGATTGTGAGATGAGAT ${\tt GGTTTTTGGAATGGGATGCAAAATCCAGAGGAATTCTGAAGTGTAAAAAGGACAAAGCTTATGAAGGCGGTCAGTTGTGCAATGTGCTTCAGTCC}$ AAAGAAGTTGTACAAACATGAGATACACAAGCTGAAGGACATGACTTGTCTGAAGCCTTCAATAGAGTCCCCTCTGAGACAGAACAGGAGCAGGAGT ACGAGCACGGGAACATGGTGAACTTGGTCTGTGACATCAAGAAACCAATGGATGTGTACAAGATTCACTTGAACCAAACGGATCCTCCAGATATTGA ${\tt CATAAATGCAACAGTTGCCTTGGACTTTGAGTGTCCAATGACCCGAGAAAACTATGAAAAGCTATGGAAATTGATAGCATACTACAGTGAAGTTCCC}$ GACACAGTGACAATTGGCAAGAACCCAGGGGAGTCGGTGACATTGCCTTGCAATGCTTTAGCAATACCCGAAGCCCACCTTAGCTGGATTCTTCCAA ACAGAAGGATAATTAATGATTTGGCTAACACATCACATGTATACATGTTTGCCAAATGGAACTCTTTCCATCCCAAAGGTCCAAGTGATAGTGG TTACTACAGATGTGTGGCTGTCAACCAGCAAGGGGCAGACCATTTTACGGTGGGAATCACAGTGACCAAGAAAGGGTCTGGCTTGCCATCCAAAAGA GGCAGACGCCCAGGTGCAAAGGCTCTTTCCAGAGTCAGAGAAGACATCGTGGAGGATGAAGGGGGCTCGGGCATGGGAGATGAAGAGAACACTTCAA GGAGACTTCTGCATCCAAAGGACCAAGAGGTGTTCCTCAAAACAAAGGATGATGCCATCAATGGAGACAAGAAAGCCAAGAAAGGGAGAAAGACACAGAAAGCCT CAGATTAATCCGGAGCGCTGGCTGATATTTTAGCCAAAGTCCGTGGGAAAAATCTCCCTAAGGGCACAGAAGTACCCCCGTTGATTAAAACCACAA $\tt GTCCTCCATCCTTGAGCCTAGAAGTCACACCACCTTTTCCTGCTGTTTCTCCCCCCTCAGCATCTCCTGTGCAGACAGTAACCAGTGCTGAAGAATC$ CTTGTTGAACCTGAAGTAACAAGCACACCTCTGGAGGAAGTTGTTGATGACCTTTCTGAGAAGACTGAGGAGATAACTTCCACTGAAGGAGACCTGA AGGGGACAGCCCCTACACTTATATCTGAGCCTTATGAACCATCTCCTACTCTGCACACATTAGACACAGTCTATGAAAAGCCCACCATGAAGA ${\tt GACGCAACAGAGGGTTGGTCTGCAGCAGATGTTGGATCGTCACCAGAGCCCACATCCAGTGAGTATGAGCCTCCATTGGATGCTGTCTCCTTGGCT}$ GAGTCTGAGCCCATGCAATACTTTGACCCAGATTTGGAGACTAAGTCACAACCAGATGAGGATAAGATGAAAGAAGACACCTTTGCACACCTTACTC ${\tt CAACCCCCACCATCTGGGTTAATGACTCCAGTACATCACAGTTATTTGAGGATTCTACTATTAGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACATCTACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACATCTACAGATCACATCTACAGATCACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACAGATCACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCTACAGATCACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCACAGTTATTTGAGGATTCTACTATTAGGGGGAACCAGGTGTCCCAGGCCAATCACATCACAGATACACAGATCACAAGATCACAAGATC$ AGGACTGACAGCAACATCCACCTTGTGAAAAGTAGTCTAAGCACTCAAGACACCTTACTGATTAAAAAAGGGTATGAAAGAGATGTCTCAGACACTA TGGGTATAATGAGCAGTATGTCTCCAGTTAAGAAGCCTGCGGAAACCACAGTTGGTACCCTCCTAGACAAGACACCACAACAGTAACAACAACAC AAGGCAAAAAGTTGCTCCGTCATCCACCATGAGCACTCACCCTTCTCGAAGGAGACCCAACGGGAGAAGGAGATTACGCCCCAACAAATTCCGCCAC AGAGTTCTCTGGTTCCTACAGCTTGGGTGGATAACACAGTTAATACCCCCAAACAGTTGGAAATGGAGAAGAATGCAGAACCCACATCCAAGGGAAC ACCACGGAGAAAACACGGGAAGAGGCCAAACAACATCGATATACCCCTTCTACAGTGAGCTCAAGAGCGTCCGGATCCAAGCCCCAGCCCTTCTCCA GAAAATAAACATAGAAACATTGTTACTCCCAGTTCAGAAACTATACTTTTGCCTAGAACTGTTTCTCTGAAAACTGAGGGCCCTTATGATTCCTTAG ATTACATGACAACCACCAGAAAAATATATTCATCTTACCCTAAAGTCCAAGAGACACTTCCAGTCACATATAAACCCACATCAGATGGAAAAGAAAT TAAGGATGATGTTGCCACAAATGTTGACAAACATAAAAGTGACATTTTAGTCACTGGTGAATCAATTACTAATGCCATACCAACTTCTCGCTCCTTG $\tt GTCTCCACTATGGGAGAATTTTAAGGAAGAATCCTCTCTGTAGGCTTTCCAGGAACTCCAACCTGGAATCCCTCAAGGACGGCCCAGCCTGGGAGGC$ ${\tt TACAGACAGACATACCTGTTACCACTTCTGGGGAAAATCTTACAGACCCTCCCCTTCTTAAAGAGCTTGAGGATGTGGGATTTCACTTCCGAGTTTTT$ GTCCTCTTTGACAGTCTCCACACCATTTCACCAGGAAGAAGCTGGTTCTTCCACAACTCTCTCAAGCATAAAAGTGGAGGTGGCTTCAAGTCAGGCA GAAACCACCACCACTGATCAAGATCATCTTGAAACCACTGTGGCTATTCTCCTTTCTGAAACTAGACCACAGAATCACACCCCTACTGCCCGGA TGAAGGAGCCAGCATCCTCGTCCCCATCCACAATTCTCATGTCTTTGGGACAAACCACCACCACTAAGCCAGCACTTCCCAGTCCAAGAATATCTCA AGCATCTAGAGATTCCAAGGAAAATGTTTTCTTGAATTATGTGGGGAATCCAGAAACAGAAGCAACCCCAGTCAACAATGAAGGAACACAGCATATG TCAGGGCCAAATGAATTATCAACACCCTCTTCCGACCGGGATGCATTTAACTTGTCTACAAAGCTGGAATTGGAAAAGCAAGTATTTGGTAGTAGGA GTCTACCACGTGGCCCAGATAGCCAACGCCAGGATGGAAGAGTTCATGCTTCTCATCAACTAACCAGAGTCCCTGCCAAACCCATCCTACCAACAGC AACAGTGAGGCTACCTGAAATGTCCACACAAAGCGCTTCCAGATACTTTGTAACTTCCCAGTCACCTCGTCACTGGACCAACAAACCGGAAATAACT ACATATCCTTCTGGGGCTTTGCCAGAGAACAACAGTTTACAACTCCAAGATTATCAAGTACAACAATTCCTCTCCCATTGCACATGTCCAAACCCA $\texttt{GCATTCCTAGTAAGTTTACTGACCGAAGAACTGACCAATTCAATGGTTACTCCAAAGTGTTTGGAAATAACAACATCCCTGAGGCAAGAAACCCAGT$ AGGCAACAGGAAAACCAAAGCCTTTCGTTACTTGGACAAAGGTTTCCACAGGAGCTCTTATGACTCCGAATACCAGGATACAACGGTTTGAGGTTCT $\tt GTCTTGCTTTCGGTCACCGTGCAGCACCTCAAATCCTAGCCTCCCACTACCAGGACGTCACTGTCTACCTGGGAGACACCCATTGCAATGGAGTGTC$

 ${\tt ACTGCAGCGCCTCGGGGGGACCCCTGGCCGCGCATCCTCTGGAGGCTGCCGTCCAAGAGGGATGATCGACGCGCTCTTCAGTTTTGATAGCAGAATCAA}$ GGTGTTTGCCAATGGGACCCTGGTGGAAATCAGTGACGGACAAAGATGCCGGAGATTACCTGTGCGTAGCTCGAAATAAGGTTGGTGATGACTAC GTGGTGCTCAAAGTGGATGTGGTGATGAAACCGGCCAAGATTGAACACAAGGAGGAGGAGCACCACAAAGTCTTCTACGGGGGTGACCTGAAAGTGG ACTGTGTGGCCACCGGGCTTCCCAATCCCGAGATCTCCTGGAGCCTCCCAGACGGGAGTCTGGTGAACTCCTTCATGCAGTCGGATGACAGCGGTGG $\tt GGGGCAGTCGGAAACTGATTGACTGCAAAGCTGAAGGCATCCCCACCCCGAGGGTGTTATGGGCTTTTCCCGAGGGTGTGGTTCTGCCAGCTCCATA$ $\tt CTATGGAAACCGGATCACTGTCCATGGCAACGGTTCCCTGGACATCAGGAGTTTGAGGAAGAGCGACTCCGTCCAGCTGGTATGCATGGCACGCAAC$ GAGGGAGGGGAGGCGAGGTTGATCGTGCAGCTCACTGTCCTGGAGCCCATGGAGAAACCCATCTTCCACGACCCGATCAGCGAGAAGATCACGGCCA TGGCGGGCCACACCATCAGCCTCAACTGCTCTGCCGGGGGACCCCGACACCCAGCCTGGTGTGGGTCCTTCCCAATGGCACCGATCTGCAGAGTGG A CAGCAGCTGCAGCGCTTCTACCACAAGGCTGACGGCATGCTACACATTAGCGGTCTCTCCTCGGTGGACGCTGGGGCCTACCGCTGCGTGGCCCGC ${\tt TACGGCCCTTCGGTCACCAGCATCCCCGTGATTGTGATCGCCTATCCTCCCCGGATCACCAGCGAGCCCACCCCGGTCATCTACACCCGGCCCGGGA}$ ACACCGTGAAACTGAACTGCATGGCTATGGGGATTCCCAAAGCTGACATCACGTGGGAGTTACCGGATAAGTCGCATCTGAAGGCAGGGGTTCAGGC ${\tt TCGTCTGTATGGAAACAGATTTCTTCACCCCCAGGGATCACTGACCATCCAGCATGCCACAGAGAGATGCCGGCTTCTACAAGTGCATGGCAAAA}$ AACATTCTCGGCAGTGACTCCAAAACAACTTACATCCACGTCTTCTGAAATGTGGATTCCAGAATGATTGCTTAGGAACTGACAACAAAGCGGGGTT ${\tt TGTAAGGGAAGCCAGGTTGGGGAATAGGAGCTCTTAAATAATGTGTCACAGTGCATGGTGGCCTCTGGTGGGTTTCAAGTTGAGGTTGATCTTGATC$ $\mathtt{ATTCAGGGTGTCTGTGTGTGCAATTTTTCTTTTTGCAAATGCCACTCGACTGCCTTCATAAGCGTCCATAGGATATCTGAGGAACATTCA$ TCAAAAATAAGCCATAGACATGAACAACACCTCACTACCCCATTGAAGACGCATCACCTAGTTAACCTGCTGCAGTTTTTACATGATAGACTTTGTT A TATATTTTAATTCAGAGTTACATACAGCTACCATTTTATATGAAAAAAGAAAACATTTCTTCCTGGAACTCACTTTTTATATAATGTTTTATATATATATTTTTTCCTTTCAAATCAGACGATGAGACTAGAAGGAGAAATACTTTCTGTCTTATTAAAATTAATAAATTATTGGTCTTTACAAGACT TGGATACATTACAGCAGACATGGAAATATAATTTTAAAAAATTTCTCTCCAACCTCCTTCAAATTCAGTCACCACTGTTATATTACCTTCTCCAGGA AACTGCATCATAACTTTACAGAATTGAATCTAGAGTCTTCCCCGAAAAGCCCAGAAACTTCTCTGCAGTATCTGGCTTGTCCATCTGGTCTAAGGTG

FIG. 2

 ${ t MPKRAHWGALSVVLILLWGHPRVALACPHPCACYVPSEVHCTFRSLASVPAGIARHVERINLGFNSIQALSETSFAGLTKLELLMIHGNEIPSIPDG$ ${\tt ALRDLSSLQVFKFSYNKLRVITGQTLQGLSNLMRLHIDHNKIEFIHPQAFNGLTSLRLLHLEGNLLHQLHPSTFSTFTFLDYFRLSTIRHLYLAENM$ VRTLPASMLRNMPLLENLYLQGNPWTCDCEMRWFLEWDAKSRGILKCKKDKAYEGGQLCAMCFSPKKLYKHEIHKLKDMTCLKPSIESPLRQNRSRS IEEEQEQEEDGGSQLILEKFQLPQWSISLNMTDEHGNMVNLVCDIKKPMDVYKIHLNQTDPPDIDINATVALDFECPMTRENYEKLWKLIAYYSEVP VKLHRELMLSKDPRVSYQYRQDADEEALYYTGVRAQILAEPEWVMQPSIDIQLNRRQSTAKKVLLSYYTQYSQTISTKDTRQARGRSWVMIEPSGAV QRDQTVLEGGPCQLSCNVKASESPSIFWVLPDGSILKAPMDDPDSKFSILSSGWLRIKSMEPSDSGLYQCIAQVRDEMDRMVYRVLVQSPSTQPAEK ${\tt DTVTIGKNPGESVTLPCNALAIPEAHLSWILPNRRIINDLANTSHVYMLPNGTLSIPKVQVSDSGYYRCVAVNQQGADHFTVGITVTKKGSGLPSKR$ ${\tt GRRPGAKALSRVREDIVEDEGGSGMGDEENTSRRLLHPKDQEVFLKTKDDAINGDKKAKKGRRKLKLWKHSEKEPETNVAEGRRVFESRRRINMANK}$ QINPERWADILAKVRGKNLPKGTEVPPLIKTTSPPSLSLEVTPPFPAVSPPSASPVQTVTSAEESSADVPLLGEEEHVLGTISSASMGLEHNHNGVI ${\tt LVEPEVTSTPLEEVVDDLSEKTEEITSTEGDLKGTAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPYEPSPTLHTLDTVYEKPTHEETATEGWSAADVGSSPEPTSSEYEPPLDAVSLAAPTLISEPTSPTLAAPTLAAPTLISEPTSPTLAAPTLISEPTSPTTTAAPTTTTTAAPTTSPTLAAPTSPTLAAPTTTTTAA$ ${\tt ESEPMQYFDPDLETKSQPDEDKMKEDTFAHLTPTPTIWVNDSSTSQLFEDSTIGEPGVPGQSHLQGLTDNIHLVKSSLSTQDTLLIKKGMKEMSQTL}$ ${\tt QGGNMLEGDPTHSRSSESEGQESKSITLPDSTLGIMSSMSPVKKPAETTVGTLLDKDTTTVTTTPRQKVAPSSTMSTHPSRRRPNGRRRLRPNKFRH$ $\verb"RHKQTPPTTFAPSETFSTQPTQAPDIKISSQVESSLVPTAWVDNTVNTPKQLEMEKNAEPTSKGTPRRKHGKRPNKHRYTPSTVSSRASGSKPSPSP"$ ${\tt ENKHRNIVTPSSETILLPRTVSLKTEGPYDSLDYMTTTRKIYSSYPKVQETLPVTYKPTSDGKEIKDDVATNVDKHKSDILVTGESITNAIPTSRSL$ ${ t VSTMGEFKEESSPVGFPGTPTWNPSRTAQPGRLQTDIPVTTSGENLTDPPLLKELEDVDFTSEFLSSLTVSTPFHQEEAGSSTTLSSIKVEVASSQA$ ${\tt ETTTLDQDHLETTVAILLSETRPQNHTPTAARMKEPASSSPSTILMSLGQTTTTKPALPSPRISQASRDSKENVFLNYVGNPETEATPVNNEGTQHM$ ${\tt SGPNELSTPSSDRDAFNLSTKLELEKQVFGSRSLPRGPDSQRQDGRVHASHQLTRVPAKPILPTATVRLPEMSTQSASRYFVTSQSPRHWTNKPEIT$ ${\tt TYPSGALPENKQFTTPRLSSTTIPLPLHMSKPSIPSKFTDRRTDQFNGYSKVFGNNNIPEARNPVGKPPSPRIPHYSNGRLPFFTNKTLSFPQLGVT$ ${\tt RRPQIPTSPAPVMRERKVIPGSYNRIHSHSTFHLDFGPPAPPLLHTPQTTGSPSTNLQNIPMVSSTQSSISFITSSVQSSGSFHQSSSKFFAGGPPA$ ${\tt SKFWSLGEKPQILTKSPQTVSVTAETDTVFPCEATGKPKPFVTWTKVSTGALMTPNTRIQRFEVLKNGTLVIRKVQVQDRGQYMCTASNLHGLDRMV$ t VLLSVTVQQPQILASHYQDVTVYLGDTIAMECLAKGTPAPQISWIFPDRRVWQTVSPVESRITLHENRTLSIKEASFSDRGVYKCVASNAAGADSLA $\tt IRLHVAALPPVIHQEKLENISLPPGLSIHIHCTAKAAPLPSVRWVLGDGTQIRPSQFLHGNLFVFPNGTLYIRNLAPKDSGRYECVAANLVGSARRT$ VQLNVQRAAANARITGTSPRRTDVRYGGTLKLDCSASGDPWPRILWRLPSKRMIDALFSFDSRIKVFANGTLVVKSVTDKDAGDYLCVARNKVGDDY VVLKVDVVMKPAKIEHKEENDHKVFYGGDLKVDCVATGLPNPEISWSLPDGSLVNSFMQSDDSGGRTKRYVVFNNGTLYFNEVGMREEGDYTCFAEN QVGKDEMRVRVKVVTAPATIRNKTYLAVQVPYGDVVTVACEAKGEPMPKVTWLSPTNKVIPTSSEKYQIYQDGTLLIQKAQRSDSGNYTCLVRNSAG EDRKTVWIHVNVQPPKINGNPNPITTVREIAAGGSRKLIDCKAEGIPTPRVLWAFPEGVVLPAPYYGNRITVHGNGSLDIRSLRKSDSVQLVCMARN ${\tt EGGEARLIVQLTVLEPMEKPIFHDPISEKITAMAGHTISLNCSAAGTPTPSLVWVLPNGTDLQSGQQLQRFYHKADGMLHISGLSSVDAGAYRCVAR$ ${ t NAAGHTERLVSLKVGLKPEANKQYHNLVSIINGETLKLPCTPPGAGQGRFSWTLPNGMHLEGPQTLGRVSLLDNGTLTVREASVFDRGTYVCRMETE$ ${\tt YGPSVTSIPVIVIAYPPRITSEPTPVIYTRPGNTVKLNCMAMGIPKADITWELPDKSHLKAGVQARLYGNRFLHPQGSLTIQHATQRDAGFYKCMAK}$ NILGSDSKTTYIHVF

FIG. 3

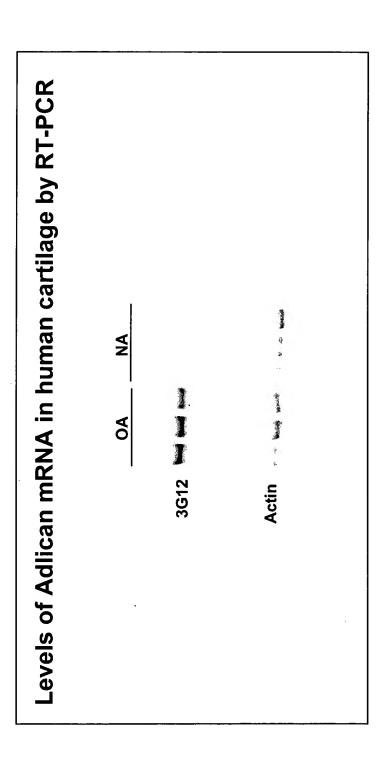


FIG. 5

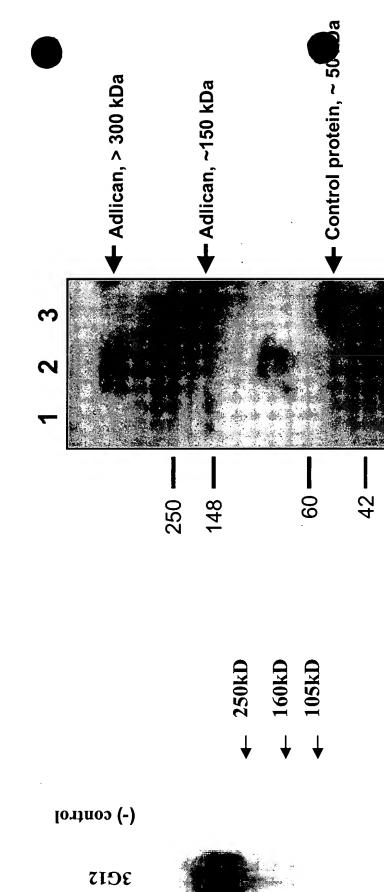


FIG. 6

